

FIG. 1 (Prior Art)

		Initial state					
	CLEAR TASK Signal	ADD TASK Signal	TaskN-1 stored in AddressN-1	$V_{N-1}=1$	TaskN stored in AddressN	$V_N=1$	Don't care $V_{N+1}=0$ AddressN+1
1	0	0	No change	$V_{N-1}=1$	No change	$V_N=1$	No change $V_{N+1}=0$
2	0	1	No change	$V_{N-1}=1$	No change	$V_N=1$	TaskN+1 $V_{N+1}=1$ (Task IN)
3	1	0	Task N	$V_{N-1}=1$	Invalid add	$V_N=0$	Don't care $V_{N+1}=0$
	1	1	Task N	$V_{N-1}=1$	TaskN+1 $V_N=1$ (Task IN)		Don't care $V_{N+1}=0$

Task N-1 is the oldest task

FIG. 4

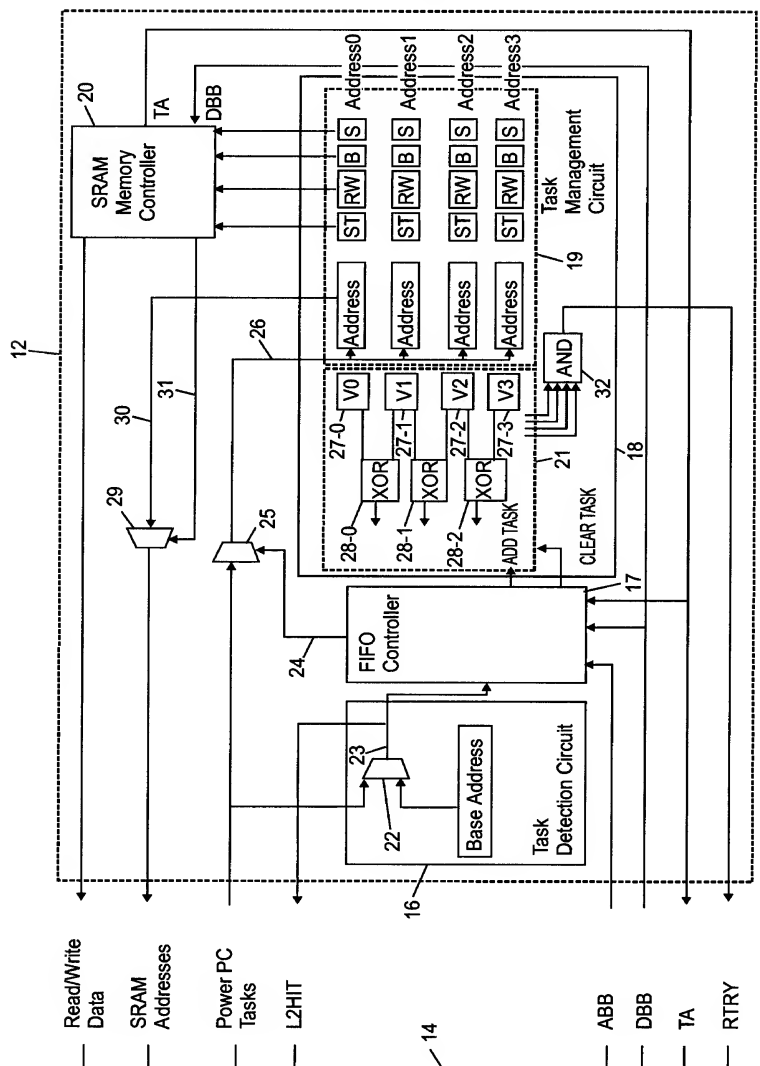


FIG. 2

3/5

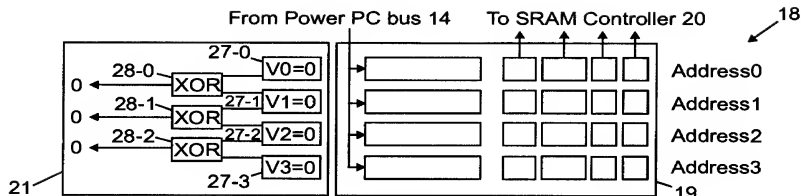


FIG. 3a

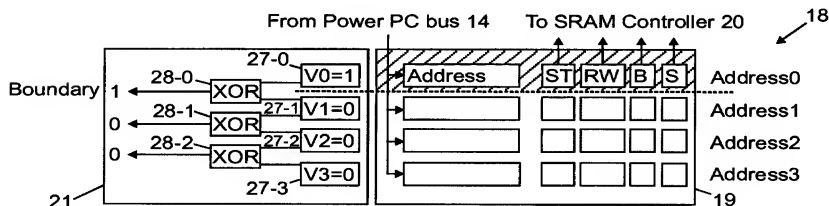


FIG. 3b

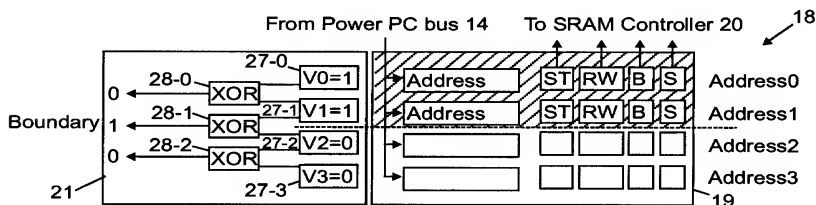


FIG. 3c

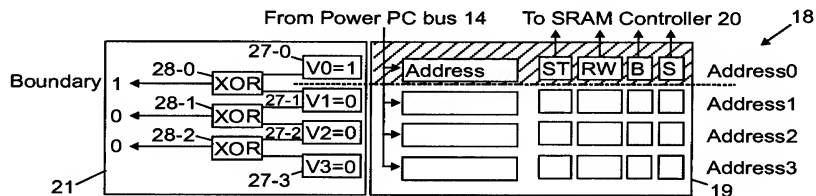


FIG. 3d

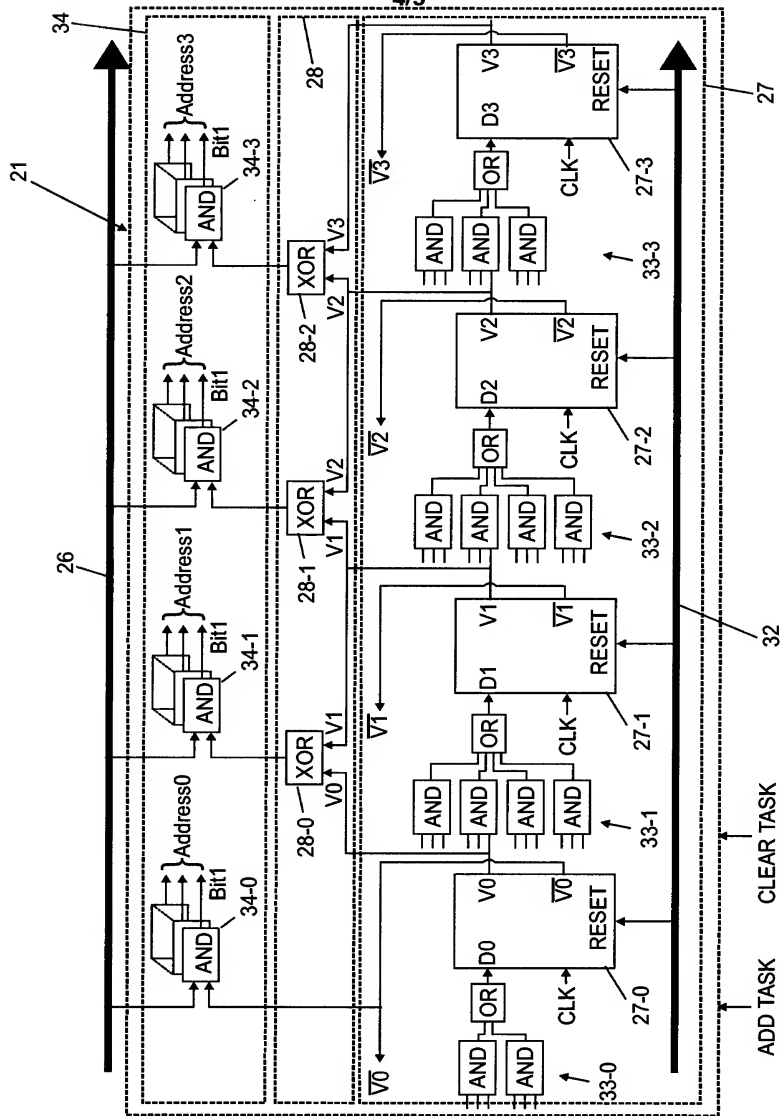
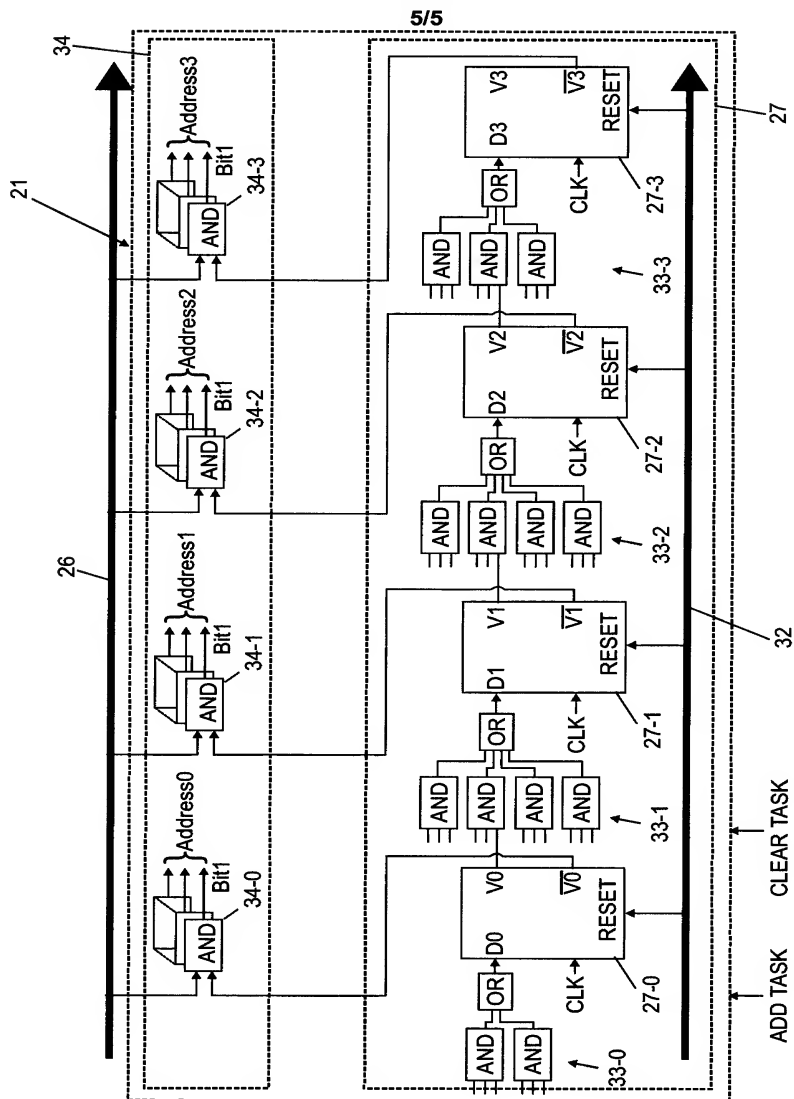


FIG. 5

**FIG. 6**